

# **In-service Educational Opportunities for Extension Agents in North Carolina**

Jarette Hurry

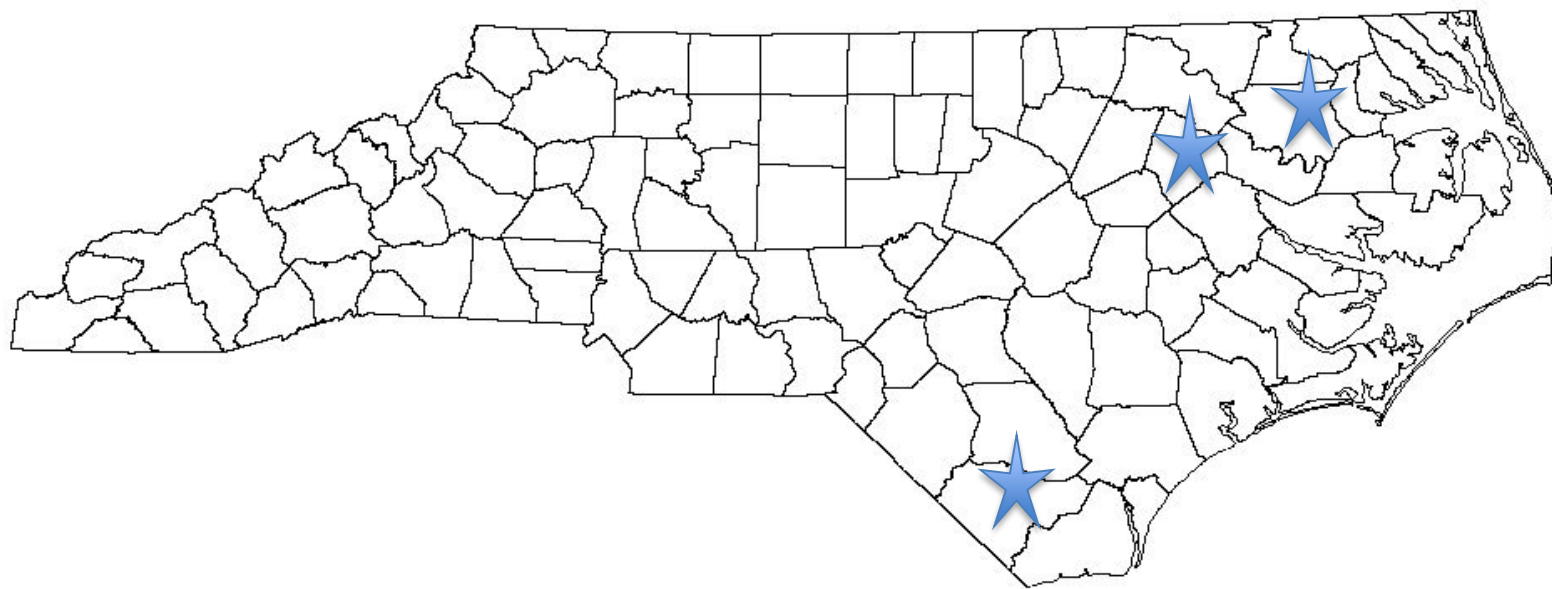
North Carolina Cooperative Extension  
Bertie County, North Carolina

## In- service educational opportunities

- Formal classroom session in January
- Field session with exercises in mid to late June
- Additional educational opportunities are provided throughout the growing season on relevant topics.
- New Agents receive additional educational opportunities at Peanut 101 trainings



# NORTH CAROLINA



# 75 Question Test

- Included all aspects of production, pest management and harvesting

Which of the following micronutrients is more problematic to peanut at low pH?

- A. Sulfur
- B. Zinc
- C. Manganese
- D. Boron

If the maximum temperature for the day is 91 and the low temperature for the day is 71 how many heat units have been accumulated for that day?

- A. 15
- B. 20
- C. 25
- D. 35



Which one of the following elements caused this toxicity?

- A. Carbon
- B. Boron
- C. Manganese
- D. Zinc



How many hours ahead of a frost should a farmer stop digging to prevent freeze damage? (assuming there is an accurate frost prediction)

- A. 24
- B. 48
- C. 72
- D. 96



What is this deficiency?

- A. Potassium
- B. Boron
- C. Manganese
- D. Nitrogen



Which Insecticide is most likely causing this injury?

- A. Imidacloprid
- B. Acephate
- C. Phorate
- D. Aldicarb



How many days is this sample away from being ready to dig ?

- A. 21 days
- B. 14 days
- C. 7 days
- D. Now





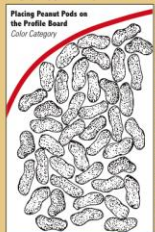
# Maturity Profile Board for Virginia-Type Peanuts

## Using the peanut profile board

Gather 150 harvestable pods from each field or from each variety within a field, collecting pods from four or five locations. The volume occupied by 150 pods is approximately 2 quarts. Keep pods in water until pod blanching. Use a pressure washer equipped with a turbo nozzle to remove the water hull and expose the mesocarp color layer. Your county extension agent can assist with this procedure.



Using the images of pods at the top of each column, place pods on the profile board under the appropriate mesocarp color category. Lay pods loosely as shown here.



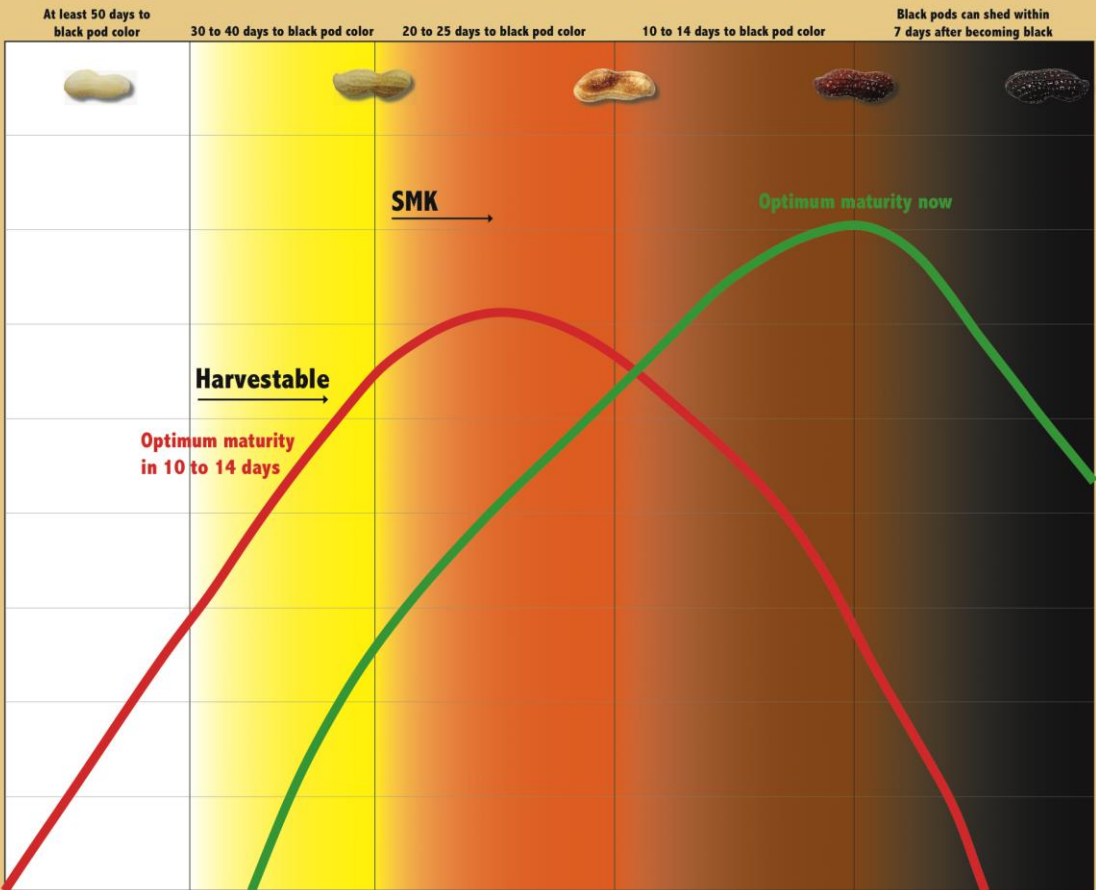
Lay pods on the chart and place them loosely under the appropriate mesocarp color category from the bottom line of the category opened. The percentage value on the right hand side of the chart can be used to compare percentages of pods among color categories. The percentages are based on the pod size of CHAMPS, which is intermediate in size among Virginia market types. In most cases samples will resemble a bell-shaped curve. However, the user's only when rainfall and temperature records predictable maturation. When weather conditions are unfavorable or when pods are damaged by insects, samples may not be uniformly distributed. This makes predicting the optimum digging date more difficult.

Use the percentage value on the right hand side of the chart to compare percentages of pods among color categories. The percentages are based on the pod size of CHAMPS, which is intermediate in size among Virginia market types. The chart may be used for runner market types, although the percentage values will be inaccurate. Pod shed of runner market types is generally lower than shed of Virginia market types after optimum maturity has been reached.

The darker the mesocarp color, the more mature the peanut pod. Darker pods are heavier, will shuck less, and will grade better than pods with a lighter mesocarp color. Depending on the completeness of kernel development, the entire hull may not have a uniform color. The saddle region is the most accurate indicator of kernel development.



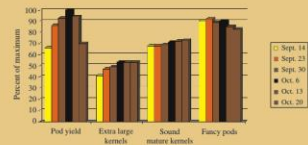
Sampling two or three times during the fall gives the best indication of the rate of peanut maturity. This is particularly important when examining pods that are black. These pods will eventually be lost, and sampling only once does not give you enough information to determine when pods in the black category are likely to be lost. Using heat unit accumulations also can help you know when to begin determining maturity.



## Factors influencing the decision to dig

- Pod maturity (influenced by variety and environmental conditions and plant health)
- Heat unit accumulation and soil moisture
- Peanut acreage, especially relative to other crops
- Soil conditions and weather forecast (likelihood of freeze damage)
- Disease pressure (balance between pod loss and increased pod fill and pod weight)
- Digging, combining, hauling, and drying capacities

Digging date's influence on yield and market grades for the Virginia market type variety Gregory planted May 5, 2003, at the Peanut Belt Research Station located near Lenoir-Blountville, NC. Data are presented as percent of maximum.



## Influence of disease on the digging decision

Diseases can dramatically affect pod shed and subsequent yield loss. However, most research suggests that extremely high levels of disease are needed to justify early digging. Peg strength and time required to reach optimum maturity will also influence this decision. Early digging is not justified if plants have tomato spotted wilt. Growers gain the greatest flexibility in digging by protecting vines from disease. Early digging is justified if:

- CBR (black root rot), at least 40 percent disease
- White mold or Sclerotinia blight, at least 50 percent disease
- Web blight and leaf spot, at least 50 percent defoliation

## Influence of freeze potential on the digging decision

Freeze damage, often referred to as frost damage, can greatly affect peanut quality, peanut flavor and market value. Digging within 3 days prior to an expected frost is extremely risky, even when good drying conditions exist. Poor drying conditions will extend the unsafe window for digging peanut to greater than 3 days. A small percentage of peanut with freeze damage can decrease economic value from the contract price to the price of peanut crushed for oil.

## Influence of logistics on the digging decision

Digging and harvesting capacities for growers are important to consider. The speed at which growers can plant peanuts is not the same as the time it takes to dig, combine, dry and haul peanuts. Four-row and six-row equipment can dig 30 and 40 acres per day, respectively (assuming 10 hours at 3 mph). Harvesting capacity for these respective equipment configurations is approximately 15 and 20 acres per day under good conditions.

## Relative ranking of days to optimum peanut maturity using heat units and relative difference in the number of days required to reach optimum maturity.

Variety	Heat units	Days
CHAMPS	2,520	-5
Bobby	2,650	-3
Sam	2,890	-1
NC-111	2,890	0
Gregory	2,650	0
Perry	2,220	+5
Florida Fancy	2,810	+7

For example, the variety CHAMPS will reach optimum maturity 5 days before the variety Gregory. The variety Perry will reach optimum maturity 5 days after the variety Gregory. Relative differences in maturity assumes varieties planted on the same day and grown under good conditions.

Prepared by: David Jordan, Dewane Johnson, Ian Spears, Brenda Perry, Barbara Shew, Rick Brandenburg, and Gary Roberson, North Carolina Cooperative Extension Service. Research enabling preparation of this publication was made possible with contributions and assistance from the North Carolina Cooperative Extension Service, North Carolina Peanut Growers Association, the North Carolina Department of Agriculture and Consumer Services, the National Peanut Board, and the Peanut Foundation.





Group 3 DMI Fungicides include:

- A. Provost, Fontelis, Tilt, Headline
- B. Provost, Folicur, Fontelis, Tilt
- C. Tilt, Provost, Folicur, Proline
- D. Omega, Elatus, Provost, Headline

Planted May 21 and emerged May 29

Soybeans next year

Scouted and able to spray on June 21

Bermudagrass, Common cocklebur, Sicklepod, and Pigweeds

- A. Clethodim, Ultra Blazer, Butyrac 200
- B. Clethodim, Basagran, Butyrac 200, Cobra
- C. Cadre, Cobra, Clethodim, Butyrac 200
- D. Gramoxone, Basagran



What is this Disease?

- A. Sclerotinia blight
- B. CBR
- C. Stem rot
- D. Crown rot
- E. Rhizoctonia limb rot



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# Cadre/Impose Application on Late-Planted Peanuts Peanut Notes No. 95 2019

— Written By [David Jordan](#) (2 weeks ago)

Peanuts planted in June will need all the help they can get in order to make a crop in a timely manner. If August, September, and October are like 2018, we should have plenty of heat units and moisture to mature a late-planted crop. But this is not a given. We could have a cooler summer, and rainfall could be limited. There are no guarantees.

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# Questions ?



Thank You